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<p>(21) Int. Application Number: PCT/US99/11825</p> <p>(22) Int. Filing Date: 27 May 1999 (27.05.1999)</p> <p>(30) Priority Data 60/086,988 28 May 1998 (28.05.1998) US</p> <p>(60) Parent Application or Grant</p> <p>(63) Related by Continuation</p> <p>US 60/086,988</p> <p>Filed on 28 May 1998 (28.05.1998)</p> <p>(71) Applicant: ST. JUDE CHILDREN'S RESEARCH HOSPITAL 332 North Lauderdale Street, Memphis, TN 38105-2794; (US). [US/US]. (for all designated states except US)</p> <p>(72) Inventors; and (75) Inventors/Applicants: SORRENTINO, Brian 6590 Quail Point Circle North, Memphis, TN 38103; (US) [US/US].BUNTING, Kevin 99 North Main #1112, Memphis, TN 38120; (US) [US/US].</p> <p>(74) Agent: DAVIS, Michael, D. Klauber & Jackson, 411 Hackensack Avenue, Hackensack, NJ 07601; (US).</p> <p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW ; ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW); Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM); European</p>	<p>(51) International Patent Classification⁶: C12N 5/10, A61K 48/00 // C07K 14/705</p> <p>A2</p>	<p>(11) Int. Publication Number:</p> <p>(43) Int. Publication Date:</p> <p>(54) Title:EXPANSION OF HEMATOPOIETIC CELLS TRANSDUCED WITH MDR METHODS OF USE THEREOF No Image Available.</p> <p>(57) Abstract The present invention includes methods of vivo expansion of gene-modified hematopoie which are useful for many applications involvin transplantation and ex vivo gene therapy. The pr further includes the gene-modified hematopoi that are used and produced by such m gene-modified hematopoietic stem cells can second heterologous gene. In addition, the pr also includes methods of engrafting the hematopioietic stem cells of the present inventio including for ex vivo gene therapy and for re hematopioietic cells in ablated mammals.</p>
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FR, GB, GR, IE, IT, LU, MC, NL, PT, SE);
OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
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